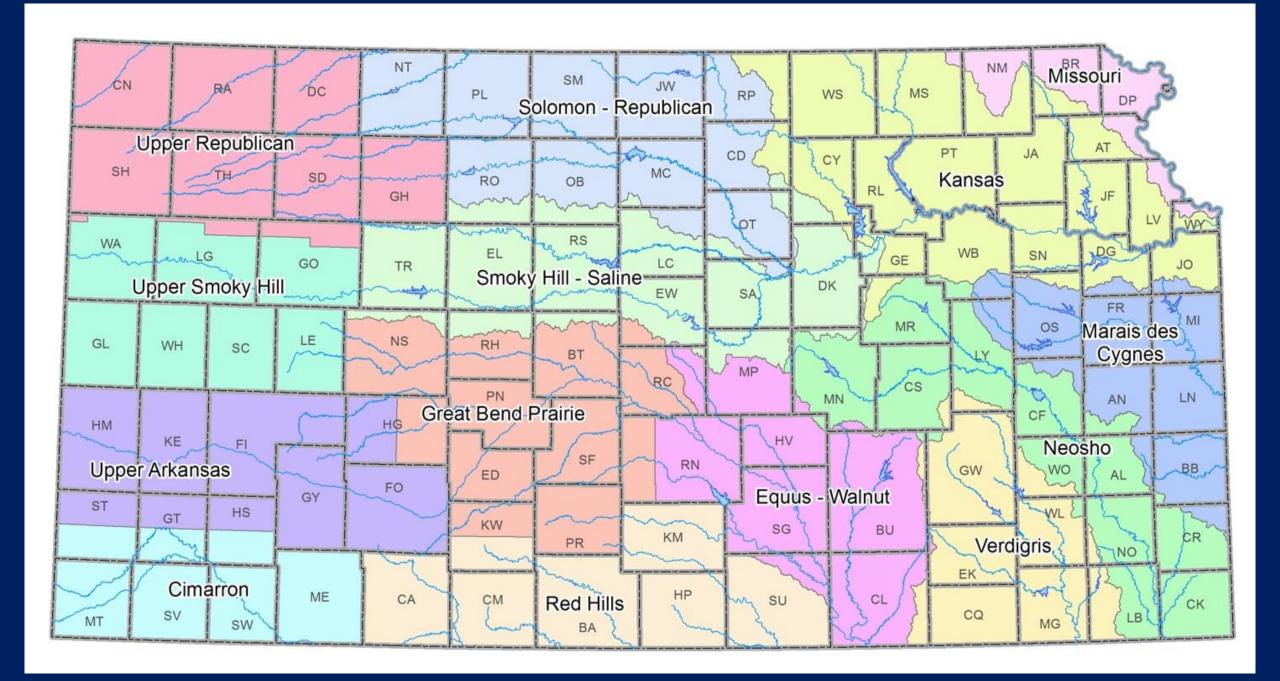
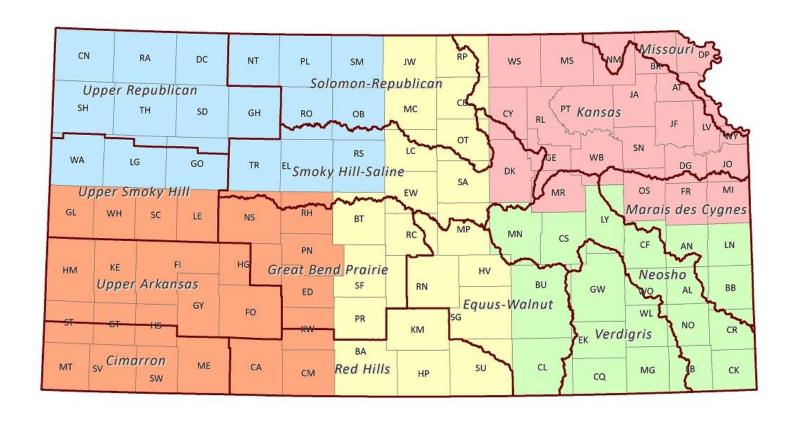
KANSAS WATER VISION IMPLEMENTATION — A REGIONAL APPROACH



State Conservation Commision Spring Workshops
March 7, 2017

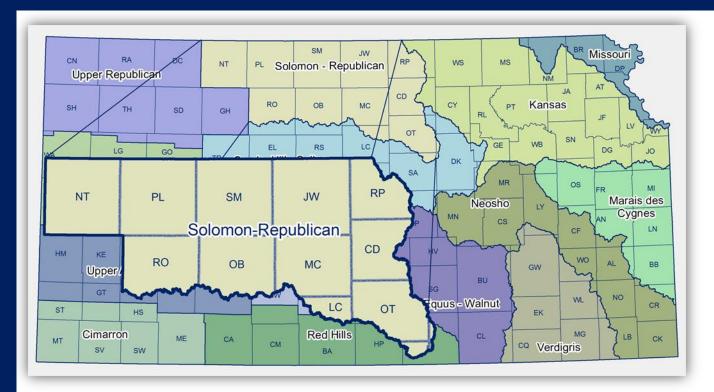
REGIONAL ADVISORY COMMITTEES





Kansas Conservation District Areas

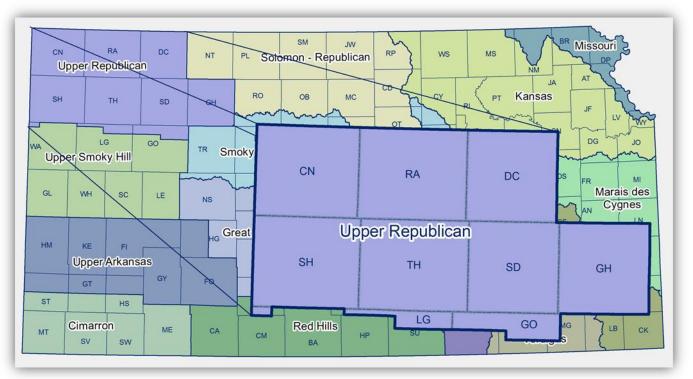




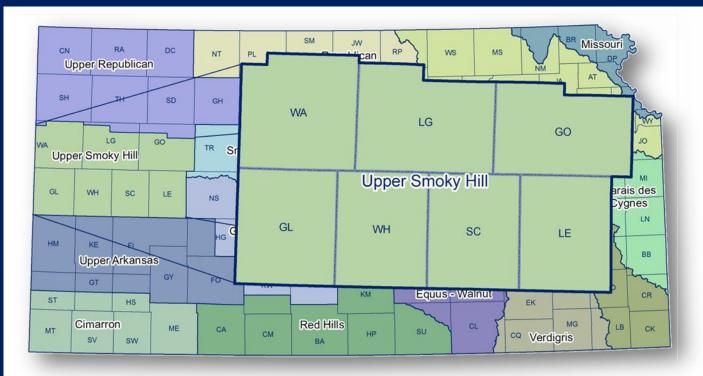
Membership				
Name	City Category		Term	
Donald Hellwig (Chair)	Solomon, KS	Agriculture 2	2017	
Mike Brzon	Courtland, KS	At Large Public 2	2017	
John Cockerham	Osborne, KS	Conservation/Environment (cc)	2017	
Raymond DeBey	Cawker City, KS	Agriculture (cc)	2019	
Timothy Driggs	Phillipsburg, KS	Public Water Supply (cc)	2019	
Stacey Forshee	Delphos, KS	At Large Public 3	2019	
Keith Houghton	Tipton, KS	Fish, Wildlife & Recreation	2019	
James (JP) Metzler	Minneapolis, KS	Industry & Commerce (cc)	2019	
Terry Nelson	Long Island, KS	Irrigation West	2017	
David Pfizenmaier	Clay Center, KS	At Large Public 4	2017	
Arnold Ross	Webber, KS	Irrigation East	2019	
Scott Ross	Stockton, KS	At Large Public (cc)	2017	



Membership				
Name	City Category		Term	
Martha Tasker (Chair)	Salina, KS	Public Water Supply (cc)	2019	
Greg Barrett	Marquette, KS	Agriculture 2	2017	
Sandra Beisner	Ellis, KS	Industry/Commerce (cc)	2019	
Toby Dougherty	Hays, KS	Large Public Water Supply	2019	
Paul Froelich	Enterprise, KS	At Large Public 2	2017	
Chris Meyer	Sylvan Grove, KS	Agriculture (cc)	2019	
John Peckham	Salina, KS	Conservation/Environment 2	2019	
Allen Roth	Hays, KS	Conservation/Environment (cc)	2017	
Bevin Law	Longford, KS	Conservation	2017	
Timothy Scheck	Russell, KS	Industry/Commerce 2	2017	
Alan Scheuerman	Ellis, KS	Small Public Water Supply	2019	
Brad Shogren	Lindsborg, KS	Irrigation	2017	



Membership Membership			
Name	City Category		Term
Sid Metcalf (Chair)	Oberlin, KS	At Large Public (cc)	2019
Brian Baalman	Menlo, KS	Industry/Commerce (cc)	2017
Shannon Kenyon	Colby, KS	Groundwater Management	2019
Gary Fisher	Atwood, KS	Local Government	2017
Mike Frakes	Morland, KS	At Large Public 2	2017
Jered Johnson	Colby, KS	Conservation/Environment (cc)	2017
Ken McCarty	Rexford, KS	Agriculture Industry	2019
Mike Shultz	Brewster, KS	Public Water Supply (cc)	2019
Justin Sloan	Colby, KS	Agriculture 2	2017
Tyson McGreer	Colby, KS	Public Water Supply 2	2017
Adriaan (Ian) De Waal	St. Francis, KS	Agriculture (cc)	2019



Membership			
Name	City	Category	Term
Shane Mann (Chair)	Quinter, KS	Irrigation	2019
Lonnie Busch	Leoti, KS	Industry/Commerce (cc)	2017
Kurt Maurath	Logan Co., KS	At Large Public (cc)	2017
Frank Mercurio	Scott City, KS	Conservation/Environment (cc)	2019
Maurice Miller	Healy, KS	Agriculture Industry	2019
Mike Todd	Scott City, KS	Public Water Supply (cc)	2019
Farrin Watt	Leoti, KS	Agriculture (cc)	2017
Danny Welsh	Wallace Co., KS	Groundwater Management	2019
Scott Noll	Scott City, KS	At Large Public 2	2017

KWA Approves RAC Action Plans

- Nearly 60 action plans developed by RACs in 2016
- 10 of 14 regions have watershed-based goals and action plans

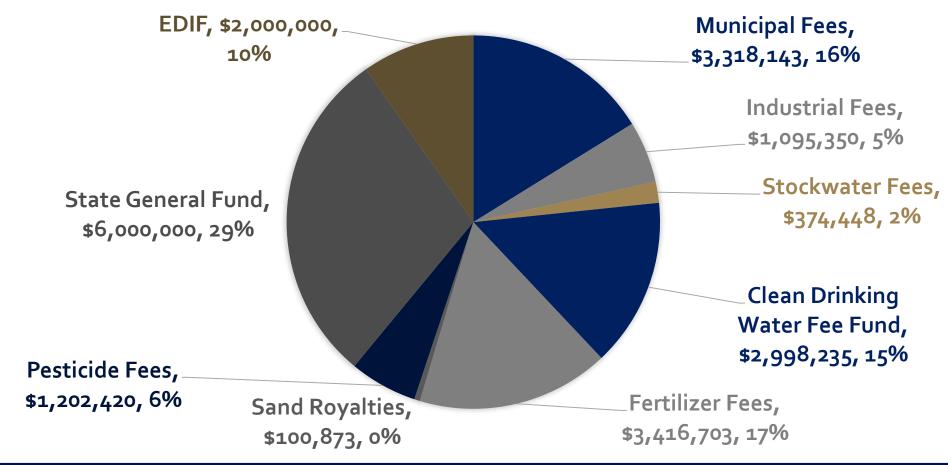




BLUE RIBBON FUNDING TASK FORCE

Vision for the Future of Water Supply in Kansas

Review of existing funding and sources



Supply Conservation WATER Research

VISION

Action Technology

iture **Loc**

Estimation of annual funding requirement to implement the Vision ~ \$55M

	Water Conservation	Water Management	Technology and Crop Varieties	Additional Sources of Water
Research		\$300,000	\$4,500,000	\$500,000
Education and Outreach	\$4,250,000		\$5,000,000	
Actions and Practices	\$21,900,000	\$100,000	\$1,500,000	\$17,500,000
Administration	Should agency administration be paid from implementation funds?			
Total	\$26,150,000	\$400,000	\$11,000,000	\$19,000,000

^{*} Does not include estimated annual funding needs from Regional Advisory Committee Action Plans

Supply Conservation
WATER Research



Action F

Technology

LOCAL

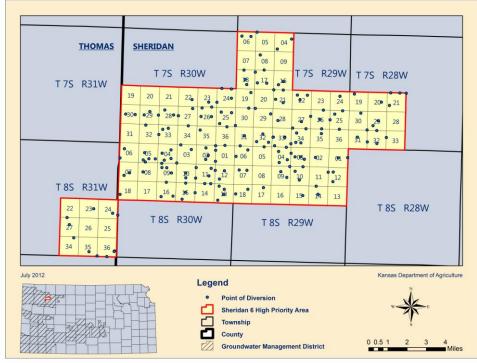
Evaluation of various funding sources

- Increase existing State Water Plan Fund fees
- Water right fee/Irrigation fee
- Bottled drinking water fee
- Residential electric fee
- Statewide retail sales tax

CURRENT IMPLEMENTATION ACTIONS

Local Enhanced Management Areas (LEMA)

- Sheridan County First approved 55 inches over 5 yrs
- Overall water reduction 20% +
- Producers allowed to move water within boundaries
- Groundwater levels increased inside LEMA in 2015
- Economic results positive so far

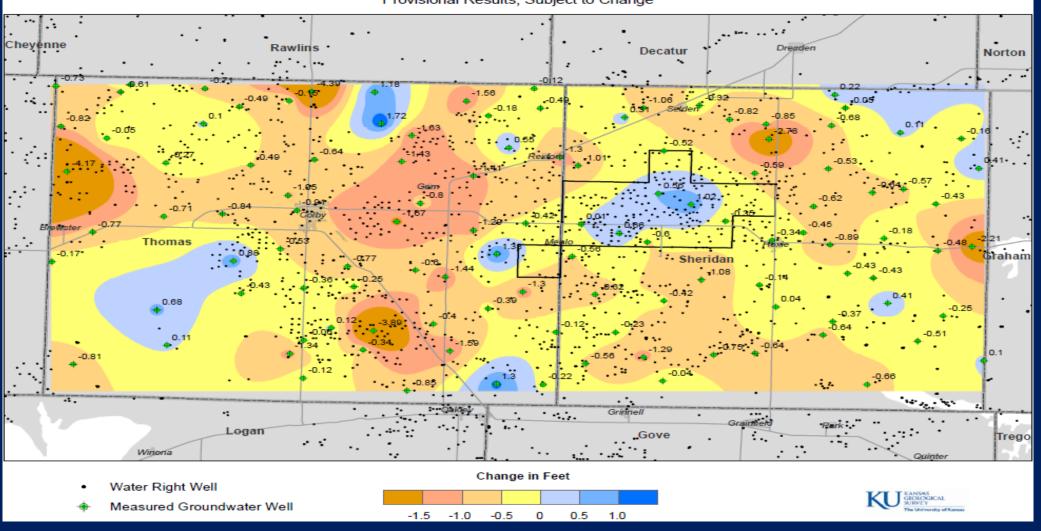


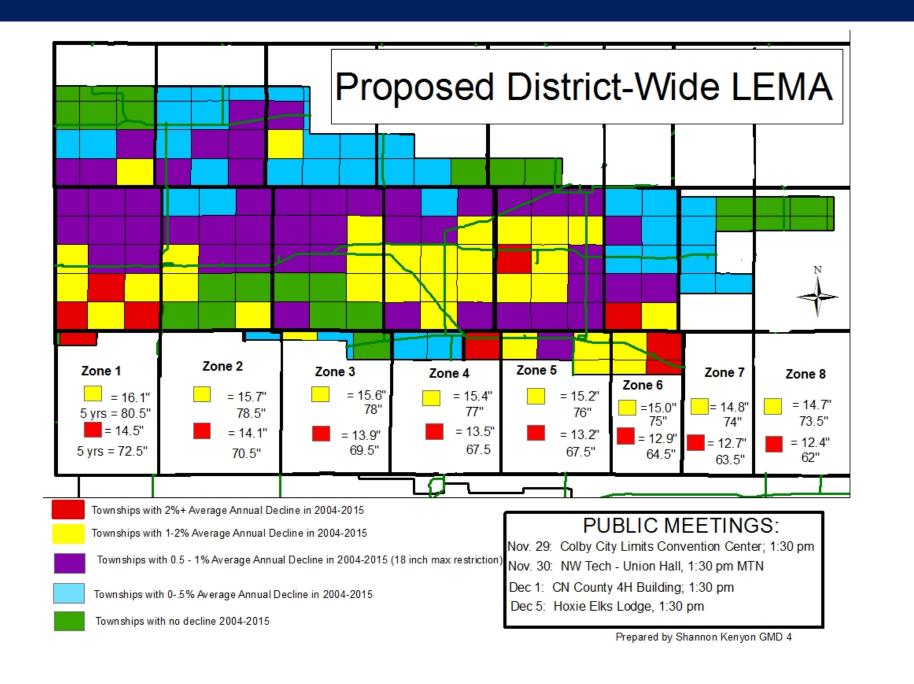
- Approved by 2012 Legislature
- Locally-led through groundwater management districts
- Allows for locally identified water use reductions with state enforcement
 - Water use flexibilities allowed
 - Does not permanently alter water right
 - Water allocations packaged into 5 year flex accounts



Interpolated 2015-2016 Water Level Change, Thomas and Sheridan Counties, Kansas

Cooperative Water Level Network Kansas Geological Survey, KDA- Division of Water Resource Provisional Results, Subject to Change





WATER CONSERVATION AREAS

What are Water Conservation Areas (WCAs)

- Signed into law in April 2015 by Governor Sam Brownback
- Provide a tool to water right owners to extend the usable lifetime of the Ogallala-High Plains Aquifer
- Developed by a water right owner or group of water right owners with the consent of the chief engineer to reduce water withdrawals while maintaining economic value via water right flexibility

WATER TECHNOLOGY FARMS

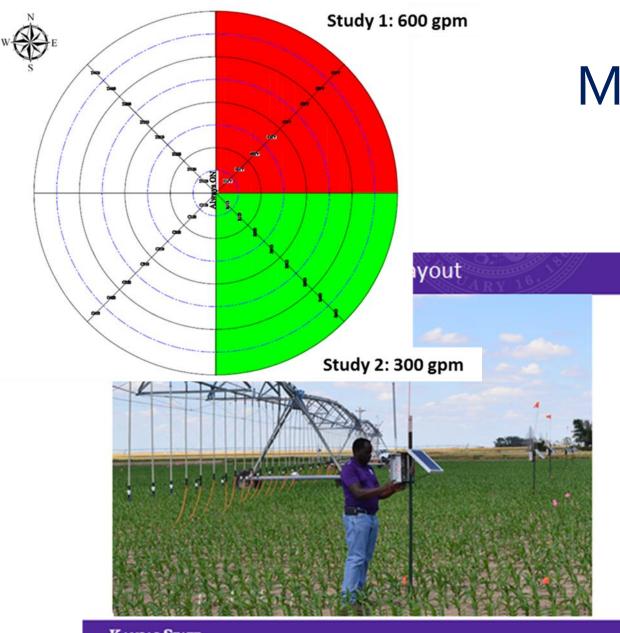
Water Technology Farms



- Three Water Technology Farms established for 2016 growing season.
- KSU providing technical assistance at all three.
- Additional Farms to be added for 2017



Showcase on a field scale, the latest technologies in irrigation infrastructure, irrigation water management, soil moisture management, conservation tillage, automation telemetry and other agronomic practices aimed at reducing water use.



MDI Evaluation - KSU

- 2015 results comparing MDI to spray nozzles
 - 30% reduction in evaporation
 - 14" applied @ 600 gpm 8" @ 300 gpm
 - 247 bu/ac @ 600 gpm 243 bu/ac @ 300 gpm
 - 10% increase in yield with MDI on the 300 gpm well
 - Water evenly distributed in soil profile
 - Dry soil surface
 - Minimal wheel tracks



QUESTIONS & DISCUSSION

Tracy Streeter, Director Kansas Water Office 900 SW Jackson, Suite 404 Topeka, KS 66612 785-296-3185 tracy.streeter@kwo.ks.gov





RESERVOIR ACTIVITIES

John Redmond Reservoir Dredging

- ➤ Backup supply to state's only nuclear power plant
- ➤1st water supply dredging project at a USACE reservoir in the US
- ➤ Phase I completed ahead of schedule



John Redmond Reservoir Dredging



More than 1,800 acre-feet of storage restored

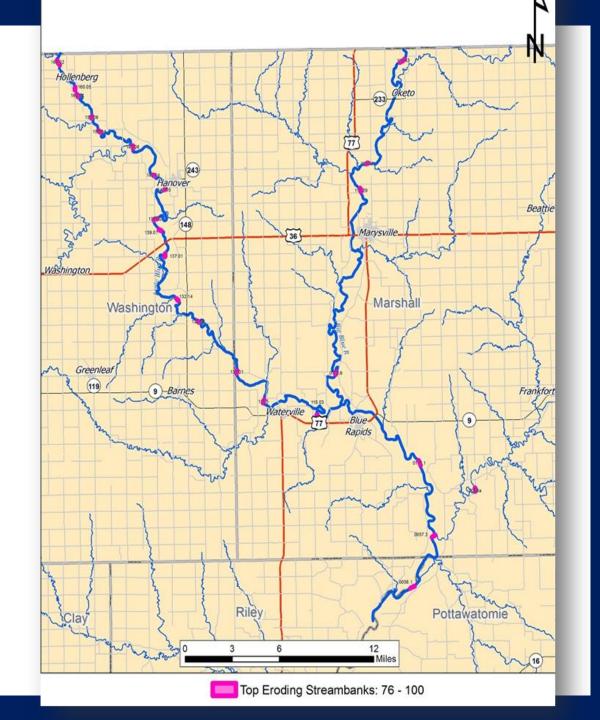
3,000,000 million cubic yards of deposited sediment removed



Restore and dispose up to three million cubic yards of sediment from John Redmond Reservoir.

Tuttle Creek Sediment Reduction

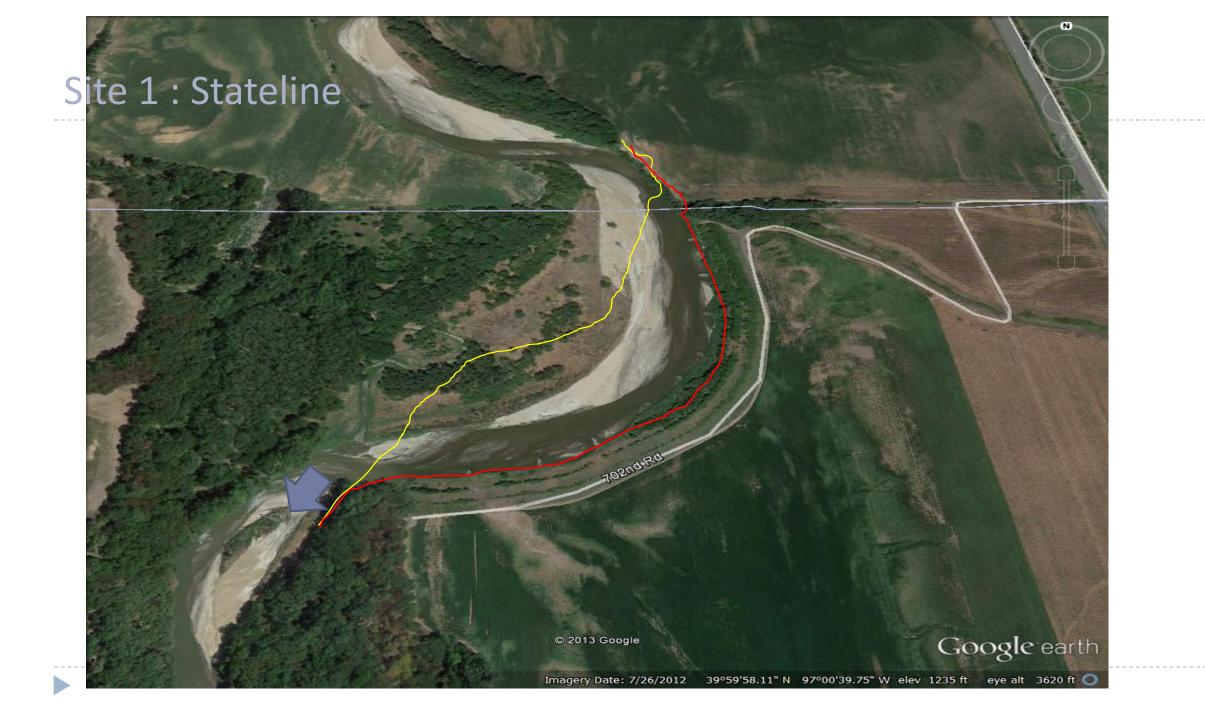
- Tuttle Creek WRAPS, KWO, KDHE and KDA-DOC coordinating and pooling funds to complete projects
- >\$800,000 allocated for FY16 and FY17
- >FY16 funding will be used to pay for the design of several projects above Tuttle Creek
- ➤ Construction will occur over the next couple of years



Before & After







Nutrients and Harmful Blue-Green Algae Milford, Marion Reservoirs & others.....

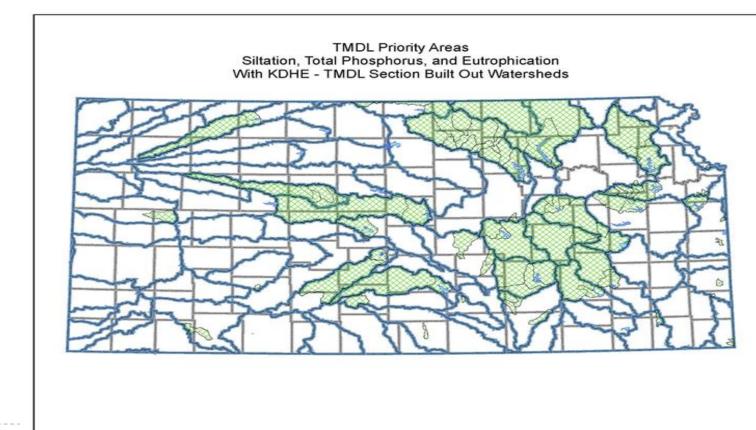






EQIP

- Ranking criteria for WaterQuality funding modified
 - Maximum points to projects addressing Siltation, Phosphorus and Eutrophication





QUESTIONS & DISCUSSION

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